

PRELIMINARY REPORT INDUSTRY SERIES

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1982 Census of Construction Industries

CC82-I-8(P)

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WATER, SEWER, PIPE LINE, COMMUNICATION AND POWER LINE CONSTRUCTION CONTRACTORS (Industry 1623)

During 1982, the establishments with paid employees classified in this industry accounted for \$12.3 billion in total business receipts. Of this amount, \$12.1 billion were receipts for construction work. These establishments paid out \$3.7 billion for materials, components, supplies, and fuels and \$1.5 billion for construction work subcontracted to others. This industry had total average employment of 188,537 employees with total payroll of \$3.6 billion. Value added for 1982 was \$7.1 billion.

Establishments classified in this industry are engaged primarily in the construction of pipe lines, communication and power lines, and sewer and water mains. It also includes construction of pumping stations, television and radio towers, and telephone lines. For specific examples, refer to the 1972 Standard Industrial Classification (SIC) Manual, and its 1977 supplement, published by the Office of Management and Budget, Executive Office of the President.

For this census, a "construction establishment" was defined as a relatively permanent office or other place of business at which or from which the usual business activities related to construction were conducted. A separate census report was required from each establishment but not from each construction site. Instead, the data for work at each site were included in the report from the appropriate office or branch office. Foreign construction activities were not included in this census.

The 1982 estimates for establishments with paid employees in all of the construction industries are based on reports from a probability sample of approximately 172,000 establishments selected from a universe of about 498,000 construction establishments with payroll. The data obtained from the sample were weighted to represent all construction establishments with payroll. Complete descriptions of the sampling and estimating procedures will be included in the final reports.

Since the data in this report are based on a sample, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same questionnaires and procedures. The relative standard error shown in the tables is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population was surveyed.

All data shown are based on current dollars for the years specified and have not been adjusted for inflation.



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Table 1. General Statistics for Establishments With Payroll by States: 1982 and 1977

(Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4)

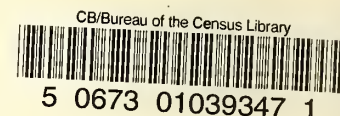
Location of establishment	1982							
	Number of establishments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
		All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H	
United States -----	9 313	188 537	162 020	3 601 173	2 924 482	306 669	12 067 366	10 575 253
Alabama -----	123	3 193	2 811	44 292	35 555	4 963	152 586	128 516
Alaska -----	35	1 601	1 276	33 658	25 802	2 396	149 931	129 066
Arizona -----	111	1 730	1 449	33 056	25 476	2 581	126 967	110 523
Arkansas -----	147	1 764	1 582	24 917	21 171	2 928	85 056	76 693
California -----	873	14 872	12 639	348 700	287 250	22 325	1 270 801	1 123 570
Colorado -----	202	4 450	3 810	79 164	64 829	6 601	262 496	234 682
Connecticut -----	107	1 299	1 097	24 933	19 603	2 032	77 665	69 114
Delaware -----	16	645	581	11 397	9 501	1 144	33 545	31 201
District of Columbia -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Florida -----	444	10 438	8 958	160 040	126 407	17 340	601 282	505 800
Georgia -----	279	8 017	7 071	121 351	100 558	13 528	397 670	342 054
Hawaii -----	20	440	363	8 552	6 735	522	33 213	27 423
Idaho -----	54	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Illinois -----	320	6 658	5 747	169 825	143 044	10 545	455 288	400 237
Indiana -----	152	2 894	2 436	56 847	41 238	4 534	173 871	157 100
Iowa -----	170	1 568	1 307	29 397	23 008	2 433	104 349	89 395
Kansas -----	174	2 345	2 051	44 972	37 125	3 811	155 587	138 822
Kentucky -----	131	2 013	1 730	31 660	25 968	3 153	104 838	94 306
Louisiana -----	236	8 475	7 021	183 731	143 624	14 647	575 468	517 009
Maine -----	34	873	782	18 882	15 883	1 616	75 847	(D)
Maryland -----	134	2 969	2 559	50 881	39 516	4 776	157 185	138 474
Massachusetts -----	171	2 841	2 347	51 100	39 862	4 254	190 618	168 988
Michigan -----	291	3 705	3 002	83 263	63 410	5 633	294 721	244 544
Minnesota -----	216	3 008	2 574	70 362	59 583	4 696	255 233	210 419
Mississippi -----	72	3 009	2 689	40 306	34 758	5 399	111 097	102 457
Missouri -----	187	3 129	2 653	63 523	52 300	4 812	212 115	182 751
Montana -----	67	724	575	14 309	12 064	1 093	50 697	43 054
Nebraska -----	104	895	784	17 321	14 582	1 533	70 358	65 132
Nevada -----	36	539	437	13 568	10 009	796	55 610	48 448
New Hampshire -----	32	369	326	5 390	4 448	570	15 914	14 533
New Jersey -----	223	4 794	4 044	124 845	100 914	7 790	424 368	380 795
New Mexico -----	65	2 348	2 064	41 213	34 034	3 895	124 601	114 747
New York -----	423	6 727	5 593	141 978	111 287	10 012	563 042	501 580
North Carolina -----	283	7 116	6 244	102 635	80 118	12 078	363 755	281 824
North Dakota -----	56	440	361	8 375	6 589	689	34 327	31 129
Ohio -----	320	6 662	5 691	135 391	111 364	10 065	388 346	334 339
Oklahoma -----	263	4 909	4 276	102 944	86 341	8 538	310 950	283 720
Oregon -----	141	2 140	1 941	45 275	39 301	3 573	147 553	133 619
Pennsylvania -----	291	9 407	7 973	193 660	161 882	15 497	575 073	511 606
Rhode Island -----	21	(S)	(S)	(S)	(S)	(S)	(S)	(S)
South Carolina -----	106	2 524	2 261	33 787	26 652	4 321	118 086	105 791
South Dakota -----	52	404	330	6 229	4 558	584	25 774	23 790
Tennessee -----	172	3 518	3 007	48 183	37 648	5 777	189 820	159 793
Texas -----	1 036	26 813	23 639	475 862	390 511	47 204	1 544 449	1 370 017
Utah -----	87	984	843	17 793	14 840	1 511	72 862	65 183
Vermont -----	24	356	292	5 374	4 442	563	19 296	16 816
Virginia -----	225	5 123	4 500	75 571	62 015	8 571	241 499	211 051
Washington -----	227	3 179	2 560	69 187	52 566	4 502	224 416	189 485
West Virginia -----	110	2 087	1 833	39 295	33 237	3 385	100 513	93 705
Wisconsin -----	195	2 581	2 190	55 939	46 513	3 919	200 115	177 472
Wyoming -----	44	864	751	17 766	14 863	1 522	63 556	56 553

1982—Con.						1977			Relative standard error of estimate (percent) for column—			Location of establishment
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
7 104 801	3 661 607	1 492 112	466 420	488 235	4 808 802	198 354	9 361 092	5 522 719	(W)	(W)	(W)	U.S.
76 130	54 147	24 070	5 648	6 022	59 324	4 384	138 954	76 067	4	5	5	Ala.
94 629	41 256	20 865	8 381	6 408	48 440	4 080	334 446	218 155	2	2	2	Alaska
63 865	48 236	16 444	5 628	3 677	47 566	1 551	98 399	37 807	4	4	1	Ariz.
50 699	27 049	8 363	2 873	2 726	36 183	1 617	52 356	27 852	7	6	7	Ark.
748 170	390 131	147 230	57 779	30 997	361 605	17 054	1 269 980	779 165	1	1	1	Calif.
158 634	78 692	27 813	13 263	12 103	97 314	2 834	142 725	80 427	2	3	3	Colo.
45 611	23 896	8 551	3 098	3 265	39 183	2 241	95 318	52 094	6	5	7	Conn.
22 827	(D)	2 344	692	3 177	22 847	706	27 924	18 961	5	6	6	Del.
(D)	(D)	(D)	(D)	(D)	(D)	341	20 707	11 032	-	-	-	D.C.
315 716	196 290	95 482	23 238	23 083	208 787	7 510	292 698	155 791	2	2	3	Fla.
205 188	143 498	55 616	6 953	20 939	157 715	4 984	157 601	92 024	2	2	4	Ga.
18 143	9 480	5 790	1 054	781	17 579	492	28 961	16 883	3	7	6	Hawaii
(S)	(S)	(S)	(S)	(S)	(S)	780	37 720	19 930	-	-	-	Idaho
274 502	129 445	55 051	14 290	9 677	197 850	8 787	485 521	259 254	1	1	2	Ill.
107 629	53 897	16 770	4 338	8 284	89 098	3 724	159 447	98 094	3	2	4	Ind.
49 494	40 840	14 954	4 545	5 661	67 209	1 903	92 421	50 589	6	4	4	Iowa
80 201	59 794	16 765	3 832	5 613	78 263	2 766	110 229	55 457	3	3	5	Kans.
63 521	32 382	10 532	2 478	4 347	53 280	2 365	103 872	52 258	4	4	5	Ky.
376 050	157 013	58 459	37 684	41 775	342 345	7 657	267 369	166 568	1	1	(W)	La.
39 940	19 794	(D)	6 173	1 493	14 941	1 052	39 230	28 151	5	-	8	Maine
87 308	53 709	18 711	6 339	6 857	55 476	3 878	148 894	86 509	3	4	4	Md.
107 972	63 815	21 630	9 109	7 298	66 366	3 358	178 271	105 719	4	4	8	Mass.
169 254	78 357	50 176	10 887	8 318	142 932	5 581	362 317	200 400	3	2	6	Mich.
124 033	91 276	44 813	8 706	9 716	100 652	4 023	219 979	112 312	3	3	3	Minn.
50 860	54 865	8 639	3 814	7 437	56 295	2 702	74 521	45 404	2	3	(W)	Miss.
143 948	(D)	29 364	10 889	7 157	74 277	2 670	119 040	66 974	3	2	4	Mo.
29 814	14 085	7 643	1 297	1 914	21 274	704	34 880	18 807	11	7	4	Mont.
44 236	21 473	5 226	3 926	3 926	40 778	1 776	78 504	40 918	8	6	7	Nebr.
28 407	20 802	7 162	2 342	1 153	17 401	623	45 245	25 406	8	4	5	Nev.
10 743	(D)	1 381	688	438	7 158	383	17 619	9 580	8	11	6	N.H.
269 959	113 435	43 572	13 587	17 899	139 123	4 657	229 267	122 874	1	1	(W)	N.J.
82 822	33 623	9 854	5 607	5 617	58 821	1 888	72 583	43 964	2	2	(W)	N. Mex.
345 937	160 967	61 462	22 194	19 347	186 739	9 550	558 397	323 570	3	1	3	N.Y.
127 077	162 742	81 930	10 618	14 086	150 389	5 421	159 533	83 998	2	2	4	N.C.
19 801	11 628	3 197	1 063	1 515	25 072	846	39 520	23 376	14	13	16	N. Dak.
244 611	96 831	54 007	12 258	15 432	164 414	7 406	398 148	245 276	2	1	1	Ohio
197 356	90 605	27 230	10 854	20 027	134 956	4 791	198 904	154 994	2	2	2	Okla.
103 536	30 677	13 934	7 576	7 728	52 916	2 331	119 175	70 230	6	3	3	Oreg.
378 514	138 133	63 467	18 165	22 457	201 342	10 427	429 329	287 445	1	1	2	Pa.
(S)	(S)	(S)	(S)	(S)	(S)	592	30 976	19 210	-	-	-	R.I.
72 745	34 599	12 295	3 087	4 483	37 254	2 400	69 192	40 086	4	6	7	S.C.
16 060	8 241	1 984	538	691	15 223	641	39 405	17 068	10	7	11	S. Dak.
93 653	66 924	30 027	4 742	5 530	76 014	4 719	165 192	85 851	3	3	7	Tenn.
973 427	417 526	174 431	66 161	70 661	585 160	20 019	755 412	467 856	1	(W)	1	Tex.
37 715	28 985	7 679	2 470	2 069	39 141	3 295	151 479	112 027	9	10	12	Utah
11 593	5 779	2 480	1 074	795	(D)	298	12 277	6 352	22	20	25	Vt.
138 429	75 199	30 448	6 449	9 201	102 594	6 652	207 352	122 331	3	2	4	Va.
123 905	68 102	34 930	9 267	10 263	94 573	3 323	207 969	121 031	2	2	(W)	Wash.
72 467	24 976	6 808	2 063	4 846	60 087	2 223	77 311	54 332	5	6	9	W. Va.
118 394	61 777	22 643	5 718	4 857	90 996	3 752	180 721	98 480	4	3	7	Wis.
41 540	17 147	7 003	1 681	2 676	31 618	598	23 813	13 693	5	2	6	Wyo.

Table 2. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4]

Item	1982	1977	Relative standard error of estimate (percent)	
			1982	1977
Total construction receipts	12 067 366	9 361 092	(W)	(W)
Building construction	203 482	200 099	2	2
Nonbuilding construction	11 116 432	8 719 911	(W)	(W)
Highways, streets, and related facilities	413 318	365 681	1	3
Power and communication transmission lines, towers, and related facilities	2 549 098	1 366 865	1	1
Sewer, water mains, and related facilities	4 738 943	4 744 940	1	1
Pipe line, other than sewer or water lines	2 508 039	1 637 966	(W)	(W)
Sewage treatment and water treatment plants	262 920	220 703	1	1
Other nonbuilding construction	644 114	383 756	2	1
Construction work, n.s.k.	747 452	441 109	2	2



The following abbreviations and symbols are used in the tables in this publication:

- * Sampling error exceeds 40 percent.
- ** All employees (average) is the sum of construction workers during pay period including 12th of March, May, August, and November divided by 4, added to all others, March 12th.
- Represents zero.
- † Represents total construction receipts less payments for construction work subcontracted to others.
- †† Represents all business receipts less payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from "all business receipts."
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- (X) Not applicable.
- n.s.k. Not specified by kind.

